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# TRANSMITTAL FORM

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Total Number of Pages in This Submission

10

Application Number 10/888,731

Filing Date October 31, 2003

First Named Inventor Yuichi Ikubo et al.

Art Unit 1621

Examiner Name Unknown

Attorney Docket Number PC3-061

## ENCLOSURES (Check all that apply)

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. ....10/698,731  
Filing Date .....October 31, 2003  
Inventor.....Yuichi Iikubo, et al.  
Assignee.....PCBU Services, Inc.  
Group Art Unit.....1621  
Examiner .....Unknown  
Attorney's Docket No. ....PC3-061  
Title .....Processes for Halogenating Compounds

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

The attached Form PTO-1449 is submitted in compliance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Pursuant to Federal Register Vol. 69, No. 182, pg. 56542 (September 21, 2004) no copies on any cited U.S. patents or U.S. published application are included herewith. No admission is made regarding whether all the submitted references are prior art.


The listed references were cited by, or submitted to, the Office in the parent, co-pending application of the above-identified application. The above-identified application is a continuation or divisional application of co-pending application Serial No. 09/966,158, filed September 28, 2001. Such prior disclosure is sufficient for the above-identified application as far as copies of the references are concerned. 37 C.F.R. § 1.98(d) and MPEP § 309(2).

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Citation of these references is respectfully requested.

Respectfully submitted,

Dated: 5/24/06

By:   
Robert C. Hyta  
Reg. No. 46,791

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				FILING DATE October 31, 2003	GROUP 1621	
<b>U.S. PATENT DOCUMENTS</b>						
*Examiner's Initials	Class	Document Number	Date	Name	Subclass	Filing Date If Appropriate
AA		1,132,636	03/1915	Taylor, et al		
AB		1,926,395	09/1933	T. Midgley, Jr.		
AC		1,926,396	09/1933	Midgley, Jr.		
AD		2,021,981	11/1935	Bichowsky		
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AF		2,456,028	12/1948	Simons		
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AH		3,080,430	03/1963	Cohen		
AI		3,479,286	11/1969	Gambaretto, et al		
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AS		4,536,298	08/1985	Kamel, et al.		
AT		4,668,407	05/1987	Gerard, et al		
AU		4,810,403	03/1989	Blvens, et al		
AV		4,826,610	05/1989	Thacker		
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<b>U.S. PATENT DOCUMENTS</b>								
*Examiner's Initials	AA	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
	AA	4,851,595	07/1989	Gumprecht				
	AB	4,876,405	10/1989	Gervasutti				
	AC	4,937,398	06/1990	Tung, et al				
	AD	4,945,119	07/1990	Smits, et al				
	AE	4,954,271	09/1990	Green				
	AF	5,040,609	08/1991	Dougherty, et al				
	AG	5,084,190	01/1992	Fernandez				
	AH	5,115,868	05/1992	Dougherty Jr., et al				
	AI	5,141,654	08/1992	Fernandez				
	AJ	5,523,501	06/1996	Kellner, et al.				
	AK	5,582,861	10/1998	Nimitz, et al.				
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	AM	6,065,547	05/2000	Ellis, et al.				
	AN	6,291,729	09/2001	Rao				
	AO	6,346,203 B1	02/2002	Robin, et al.				
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	AQ	6,478,979	11/2002	Rivers, et al.				
	AR	6,763,894	07/2004	Schoenrock				
	AS	6,894,194	02/2005	Robin, et al.				
	AT	5,416,248	05/1995	Krespan et al.				
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					FILING DATE October 31, 2003		GROUP 1621	
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AA	CA 902590A	08/1962	Canada				
	AB	EP 0 039 471 A1	11/1981	Europe				
	AC	EP 0 253 410	01/1998	EPO				
	AD	EP 0 383 443 A2	08/1990	Europe				
	AE	EP 0 434 409 A	06/1991	Europe				
	AF	EP 0 481 618 A1	04/1992	Europe				
	AG	EP 0 570 367 B1	01/1993	Europe				
	AH	RU 2068718 C1	08/1990	Russia				
	AI	1,546,505	09/1970	Germany				
	AJ	WO 91/02564	03/1991	WIPO				
	AK	WO 91/04766	04/1991	PCT				
	AL	WO 91/12853	09/1991	PCT				
	AM	WO 93/24586	12/1993	PCT				
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	AS	JP 51034595	09/1974	Japan				
	AT	JP 57-93070-A	06/1982	Japan				
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	AV							
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FOREIGN PATENT DOCUMENTS, CONT.							
	AA	Sho 50-50864 (Laid Open Sho 51-131100)	04/1975	Japan			
	AB	Sho 48-19093	03/1973	Japan			
	AC	Sho 52-25679	07/1977	Japan			
	AD	Lai Open Hei 4- 96770	03/1992	Japan			
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vol. 23, No. 10, pp. 1203-1207					
	AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents". August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> , pp. i-90					
	AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destroying Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> , pp. i-11					
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	AE	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methanes and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , 1982, 86, 2672-2676					
	AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Report of the Halons Technical Options Committee", June 1989, Draft for Peer Review					
	AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogens Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> , pp. 376-402					
	AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing", 1951, <i>National Advisory Committee for Aeronautics</i> , Technical Note 3565, pp. 1-30					
	AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly- and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt University in Berlin</i> , Vol. 10, pp. 1-22 (translated)					
	AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing", 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8					
	AK	Smart, B.E., "Fluorocarbons". 1983, <i>The Chemistry of Functional Groups</i> , Supplement D, Chapter 14, pp. 603-655					
	AL	Chemical Encyclopedia, "Bolshaya Rossiiskaya Entsiklopedia" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol					
	AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Final Report of the Halons - Technical Options Committee", August 1989					
	AN	Reid, Robert C., "The properties of gases and liquids", 1987, pp. 153-157					
	AO	"Part IV The Evolution of the Montreal Protocol". 1987, Section 4.1 and 4.2, pp. 265-275					
	AP	Hynes, Robert G., et al., "Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule CF <sub>3</sub> CHFCF <sub>3</sub> ", 1999, <i>J. Phys. Chem. A</i> , Vol. 103, pp. 54-61					
	AQ	Joint Assessment of Commodity Chemicals No. 24, <i>Pentafluoroethane (HFC 125)</i> , (E)ETOC May 1994, pp. 14-20					
	AR	Kubota, Kazuo, "Current State and Measures Related to Chlorofluorocarbon Regulations, Part I", 1989, <i>Valqua Review</i> , Vol. 33, No. 2, pp. 1-9 (English translation - pp. 1-18)					
	AS	Malcolm, J.E., "Halogenated Extinguishing Agents". Part II Research at the Corps of Engineers' Laboratories. 1951. <i>NFPA Quarterly</i> , pp. 119-131					
	AT	Nelson, Thomas P., "Findings of the Chlorofluorocarbon Chemical Substitutes International Committee", April 1988, <i>U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory</i> , EPA/600/9-88/009, pp. i-K6					
	AU	Smart, Bruce E., <i>Fluorinated Organic Molecules</i> , 1986, <i>Molecular Structure and Energetics</i> , Vol. 3, pp. 141, 152					
	AV	Tomimaga, Takeshi, "Global and Technical Countermeasures Against Fluon", 1989, <i>The Nikkan Kogyo Shinbun, Ltd.</i> , pp. 134-137, 156-163, 170-174 (English translation)					
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
	AA	Index to Decisions and Annexes of the Parties to the Montreal Protocol, Helsinki Meeting, p. 79, 128, 241, 1989.			
	AB	Marshal Sittig, Chemical Process Monograph No. 22, Fluorinated Hydrocarbons and Polymers, 1966, page 13.			
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	AD	National Fire Protection Association, NFPA 2001 "Clean Agent Fire Extinguishing Systems" pps. 2001-1 and 2001-14			
	AE	Creitz, Journal of Research of the National Bureau of Standard, Vol. 65A, No. 4, pp. 389-396 (1961).			
	AF	Simons, Fire Extinguishing Agents, in H.G. Bryce, Industrial Aspects of Fluorine Chemistry, at pages 354-358, Vol. 6 of Hudlicky, Milos, Chemistry of Organic Fluorine Compounds (1962).			
	AG	R. Hirst and K. Booth, Measurement of Flame-Extinguishing Concentrations, Fire Technology, Vol. 13(4): 296-315 (1977).			
	AH	Final Report on Extinguishing Agents for the Period September 1, 1947 to June 30, 1950 Covering Research Conducted by Purdue Research Foundation and the Department of Chemistry, Purdue University, Contract W-44-009-engr 507, Army Engineers Research and Development Laboratories, Fort Belvoir			
	AI	Research at the Corps of Engineers Laboratories, Halogenated Extinguishing Agents NFPA Quarterly pgs. 118-131, (October, 1951).			
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	AL	Hogue, Cheryl, "Substitutes for Halons: No One Chemical Suitable", Intl. Environment Reporter, Nov. 21, 1990, pp. 493-495.			
	AM	Federal Register Vol. 58, No. 90, May 12, 1993, pp. 28136-28149 and 28176-28185.			
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	AS	FM-200® Waterless Fire Protection for Marine Applications," 2003, 8 pages			
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OTHER REFERENCES, CON'T. (including Author, Title, Date, Pertinent Pages, Etc.)					
	AA	Burkland, Robert E., "When It Comes to Fire Protection - Speed Counts," Automotive Industry Agenda, March 2002, one page			
	AB	Mike Bennett, "Halon Replacement for Aviation Systems," International CFC and Halon Alternatives Conference, September 29 through October 1, 1992, Washington, D.C., pages 667-672			
	AC	Thornton, Al, "FM-200, A Unique Fire Fighting Agent," 1997 Taipei International Conference on Ozone Layer Protection, December 10, 1997, 10 pages			
	AD	The Appeal Decision in invalidation action for Patent No. 2580075, 10 pages (translation)			
	AE	International Fire Protection, "Great Lakes Chemical Corporation - Company Profile," An MDM Publication, Issue 4, Nov/Dec 2000, 4 pages			
	AF	<a href="http://www.e1.greatlakes.com/wfp/product/jsp/articles.jsp">http://www.e1.greatlakes.com/wfp/product/jsp/articles.jsp</a> "Airports and Satellite Installations Protected by FM-200®," "Healthcare Facilities Protected by FM-200® Waterless Fire Protection Systems," "Museums and Cultural Landmarks protected by FM-200®," and "Casino Properties Protected by FM-200®."			
	AG	Nimitz, et al., "Halocarbons as Halon-Replacements: Technology Review and Initiation," New Mexico Engineering Research Institute, University of New Mexico, Final Report, March 1991, 141 pages			
	AH	"A Review of the Toxic and Asphyxiating Hazards of Clean Agent Replacements for Halon 1301," A Report by the Halon Alternatives Group, February 1995, 22 pages			
	AI	Hart-Winchester, "A Burning Issue: What Products Will Replace Halon 1301?" The Computer Operations Manager, March/April 1995, pages 13-18			
	AJ	Maranghides, et al., "Discharge System Modifications: Real Scale Halon 1301 Replacement Testing," Halon Options Technical Working Conference, Albuquerque, New Mexico, May 7-9, 1996, 12 pages			
	AK	Ellis, "Pleasure Boat Fire Extinguisher Choices," Burgee 26, November 1996			
	AL	"Scientific Assessment of Stratospheric Ozone: 1989", sponsored by the United Nations Environmental Program			
	AM	Natl Fire Protection Assoc., Boston, "First Protection Handbook" 14 <sup>th</sup> ed., 2001, Sec 13/Chap 4, pp. 13-20 to 13-26			
	AN	Fukaya+, Journal of Fluorine Chemistry, "Fire Extinguishing Ability of Perfluoroalkylamines and...., 2000, pp. 143-146			
	AO	Burns+, "Fluorine Compounds in Anaesthesia", 1982, Vol. 37, pp. 278-284			
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